

# VTF 2006

VIA Technology Forum

Home Entertainment Servers  
Delivering the Digital Lifestyle

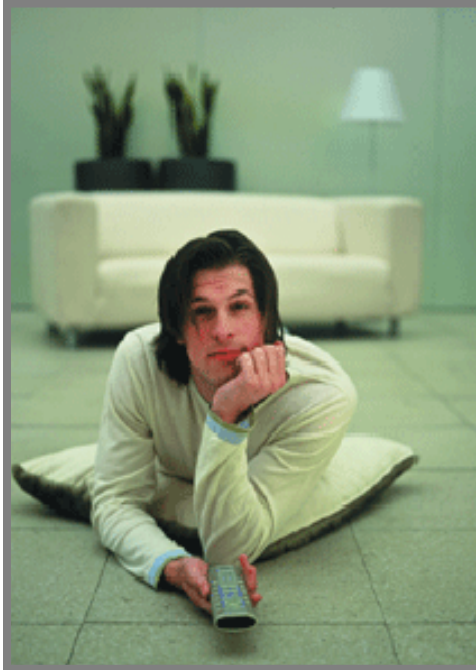
Ken Fuhrman



*Embracing  
Digital Intelligence*

# What Do People Want to Do?

**Watch TV, PVR,  
DVDs, Movies,  
IPTV & VOD  
In Every Room  
of the House**



**Listen to Music,  
CDs, Mp3s, WMAs  
& Internet Radio  
In Every Room  
of the House**



**Organize, Edit &  
Show Photos  
On the Big Screen!  
In Every Room  
of the House**

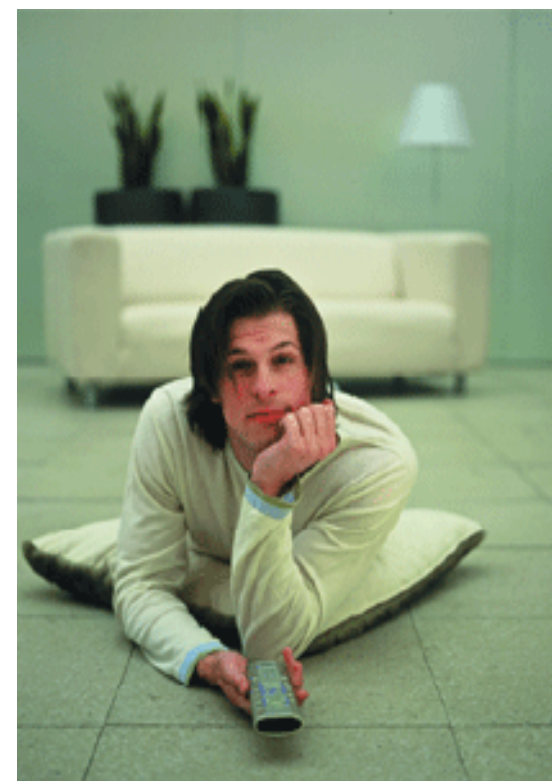


**Access  
All  
this Multimedia  
Anytime...  
Anywhere...**



# People Want to Watch TV, PVR, DVDs, Movies, IPTV, VOD In Every Room of the House

- Transfer DVD collections to a Media Server and enjoy from a secure source
- Store DVDs in a safe place and use as Masters for years to come
- Watch, Pause, Rewind/Fast Forward as well as Record Live TV and IPTV
- Build a Video Library that can be watched from any room in the house
- Protect consumer investment – 250 DVDs cost around \$2,500
- Download Movies from VOD sources – The way movies will be delivered in the future
- Locate the Movie or Recorded TV Show to watch quickly and easily
- Do it all from the sofa over an elegant User Interface that everyone can use





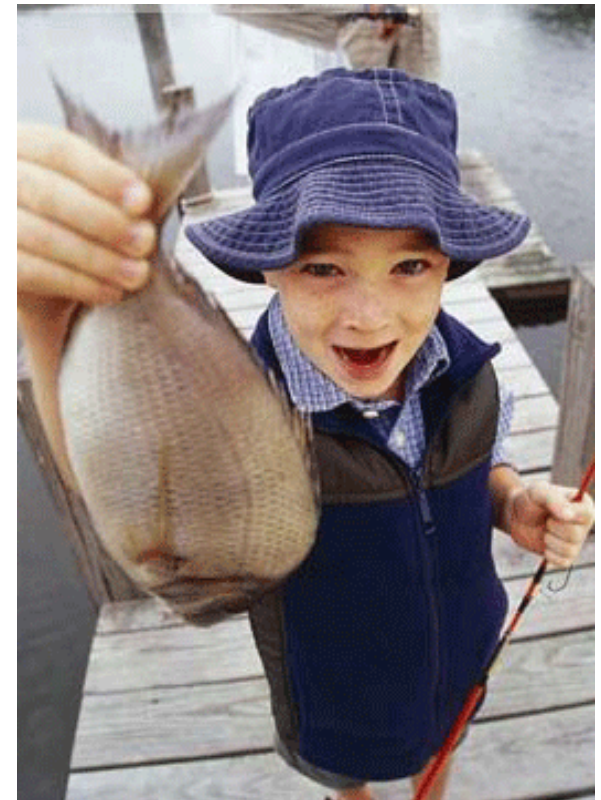
People Want to  
Listen to Music, CDs, MP3s, WMAs, Internet  
In Every Room of the House

- **Transfer entire CD, Vinyl, MP3, WMA music collections to a Media Server and access all music from a secure source**
- **Store CDs in a safe place and use as Masters for years to come**
- **Organize, Sort, Create Playlists and Play music for any occasion**
- **Build a Music Library that can be played in any room of the house**
- **Protect consumer investment – 250 CDs cost around \$2,500**
- **Download Music from any source at anytime**



# People Want to Organize, Edit & Show Photos On the Big Screen In Every Room of the House

- Transfer entire Photo collections to a Media Server and access all photos from a secure source
- Store photos in a safe place and use as Masters for years to come
- Organize, Sort, Catalog, Create Slide Shows and Show on any TV screen
- Build a Photo Library that can be enjoyed in any room of the house
- Protect the Family photo history – the value ... priceless
- Download/Upload Photos from any source at anytime



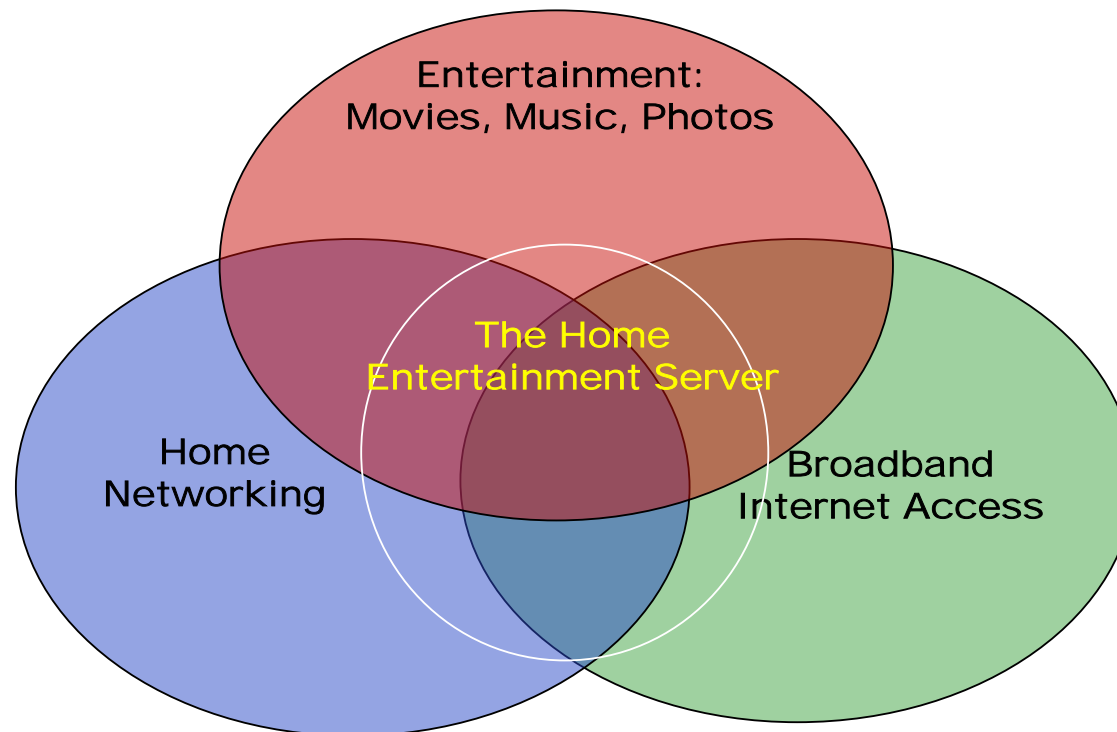
# People Want to Access All this Multimedia Anytime... Anywhere...

- Access complete Movie, Music & Photo collections from anywhere there is an Internet connection
- Control Media Server functions from anywhere in the world
- Synchronize Content between Media Servers located anywhere on the internet
- Control the Media Server using Personal IT Devices i.e. Web Tablets, Palmtops etc
- Transcode Media to maximize Quality/File Size efficiency
- Load favorite media on a portable, personal media device and take anywhere



# What is a Home Entertainment Server?

**Allows consumers to easily store, manage, access and enjoy their entire digital media library.**



## Key Features

- **DVD/Video Library**
- **Music Library**
- **Photo Library**
- **PVR with EPG**
- **Telly Portal**
- **Web Browsing**
- **Web-based Media Management**
- **Built-in Media Sharing**
- **Lean Back vs. Lean Forward User Interface**
- **Easy to Use and Setup**



## Additional Features

- **Ability to Easily Expand Features Set**
- **Easy Setup**
- **Easy to Use from Remote Control Only**
- **Security and Reliability**
- **Automated Lookup of Metadata**
- **Media Sharing with both PCs and Media Adapters (DLNA & UPnP)**
- **Central Secure Point for Digital Media in the Home**

## Expandable Storage

- **Consumer Demand for Digital Storage is Increasing**
- **Storage Costs are Dropping as Size is Expanding (1TB HDD coming soon)**
- **Ability to Share Storage over the Network via a NAS**
- **Ability to Manage Content over the Network while Appearing Seamless to the Consumer**

## Form Factor & Design

- **Designed to Fit into the Family Entertainment Center**
- **Range from Small to Larger Units**
- **Quiet, Stylish & Compact Designs**
- **Correct Connections for All Levels of Home Installation**
- **Easy to Install and Setup**

## Correct Audio/Video Connections

- **Video Output**  
S-Video  
Composite  
Component (Y,Cr,Cb)  
DVI/HDMI
- **Audio**  
Stereo Analog (RCA Connectors)  
5.1 or 7.1 Digital Audio
- **RF Input, SVideo & Composite Input**



## Other I/O Connections

- **IR Receiver for Remote Control  
No Keyboard Required**
- **USB for Camera Input**
- **1394 for DV Video Camera Input**
- **GigEthernet for Sharing Media**
- **Wireless (802.11g) for Easy Setup**

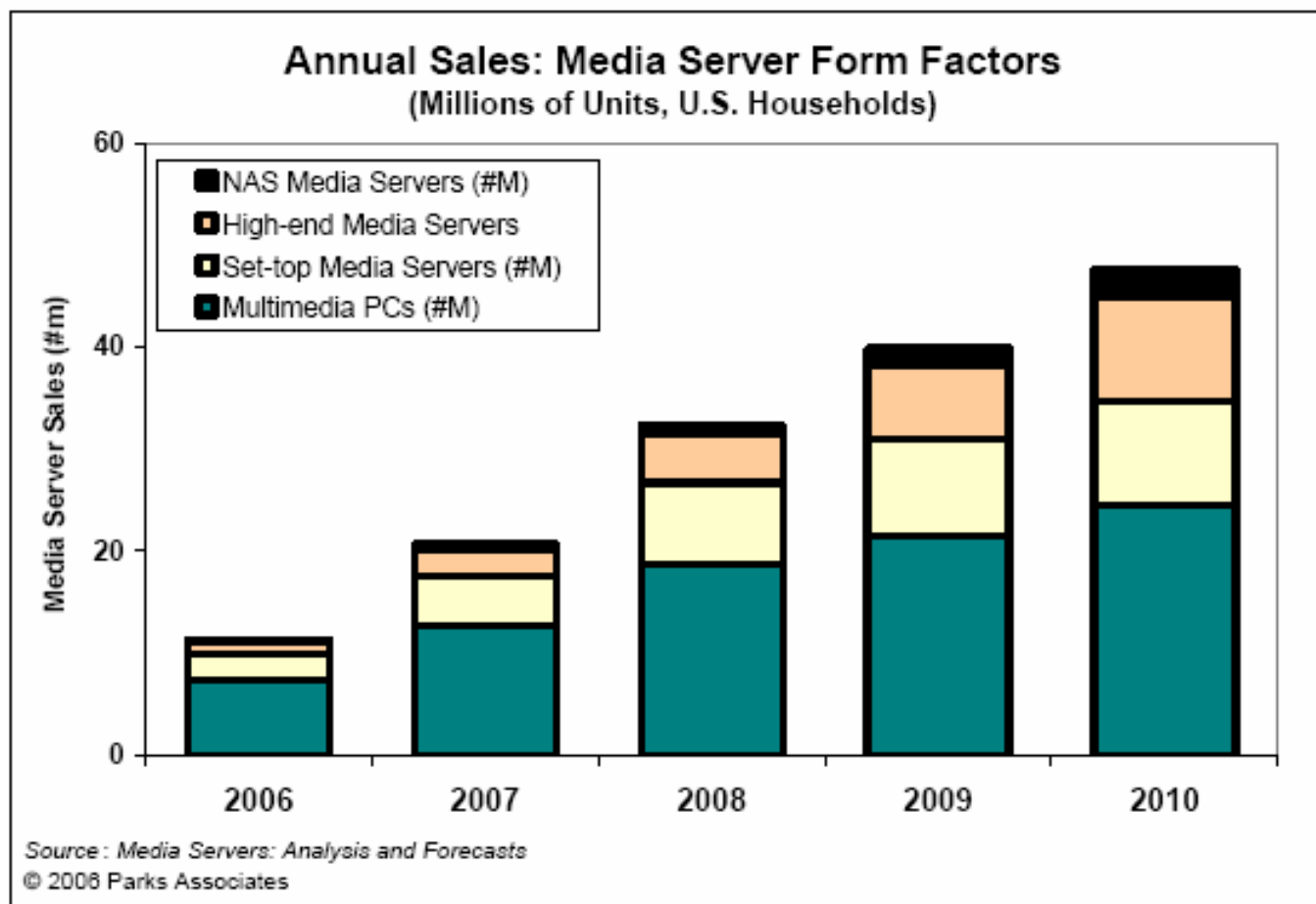
## Security & Reliability

- Consumer's have significant investment in managing their digital media
- Cannot risk performance or failure based on virus or other malware
- Redundant storage solutions protect against HDD failure
- RAID for the ultimate in secure storage
- Disk monitoring to diagnose HDD problems before they happen

# Market for Home Media Servers

## Media Server Market > 50M units by 2010

“Parks Associates – Media Servers: Analysis & Forecasts, 2006”



## Market for Home Media Servers

*According to Strategy Analytics, in 2002, the US market for Networked Digital Entertainment Devices was \$400 million growing to \$14.5 billion by 2008 with a CAGR of 80%. This market includes currently available devices such as the Personal/Digital Video Recorder (PVR or DVR). The Asian and European combined markets are estimated at \$18.4 Billion in sales by the end of 2008.*



# Presenting the World's Most Capable, Flexible & Secure Home Entertainment Servers

## **MyTelly**

**The Affordable  
Home Entertainment  
Server**



## **Telly MC1200**

**The Expandable  
Home Entertainment  
Server**



## **TeraTelly**

**The Ultimate  
Home Entertainment  
Server**



## **TellyVizion**

**The Most Capable  
Multimedia  
Playback Unit**



# System Components

**VIA EPIA EN12000 with Mini-ITX Form Factor**



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**HW Platform**

**Branded  
Home Entertainment Server**



# VIA EN Series

## Mini-ITX Form Factor

### Main Features

- 1.5GHz VIA C7 nanoBGA2 Processor (VIA EPIA EN15000)
- 1.2GHz VIA Eden nanoBGA2 Processor (VIA EPIA EN12000E)
- Mini-ITX Form Factor
- VIA CN700 North Bridge
- VIA VT8237R-series South Bridge
- 1 DDRII 400/533 DIMM socket
- Up to 1GB memory size
- Integrated VIA UniChrome™ Pro AGP graphics with MPEG-2 acceleration
- 2 UltraDMA 133/100/66 Connectors
- VIA VT6122 GLAN Controller
- VIA VT1618 8 channel AC'97 Codec
- VIA VT1625M HDTV Encoder
- VIA VT6307S IEEE 1394 Firewire
- Low Power Consumption
- Can be Fanless



# The Development Platform



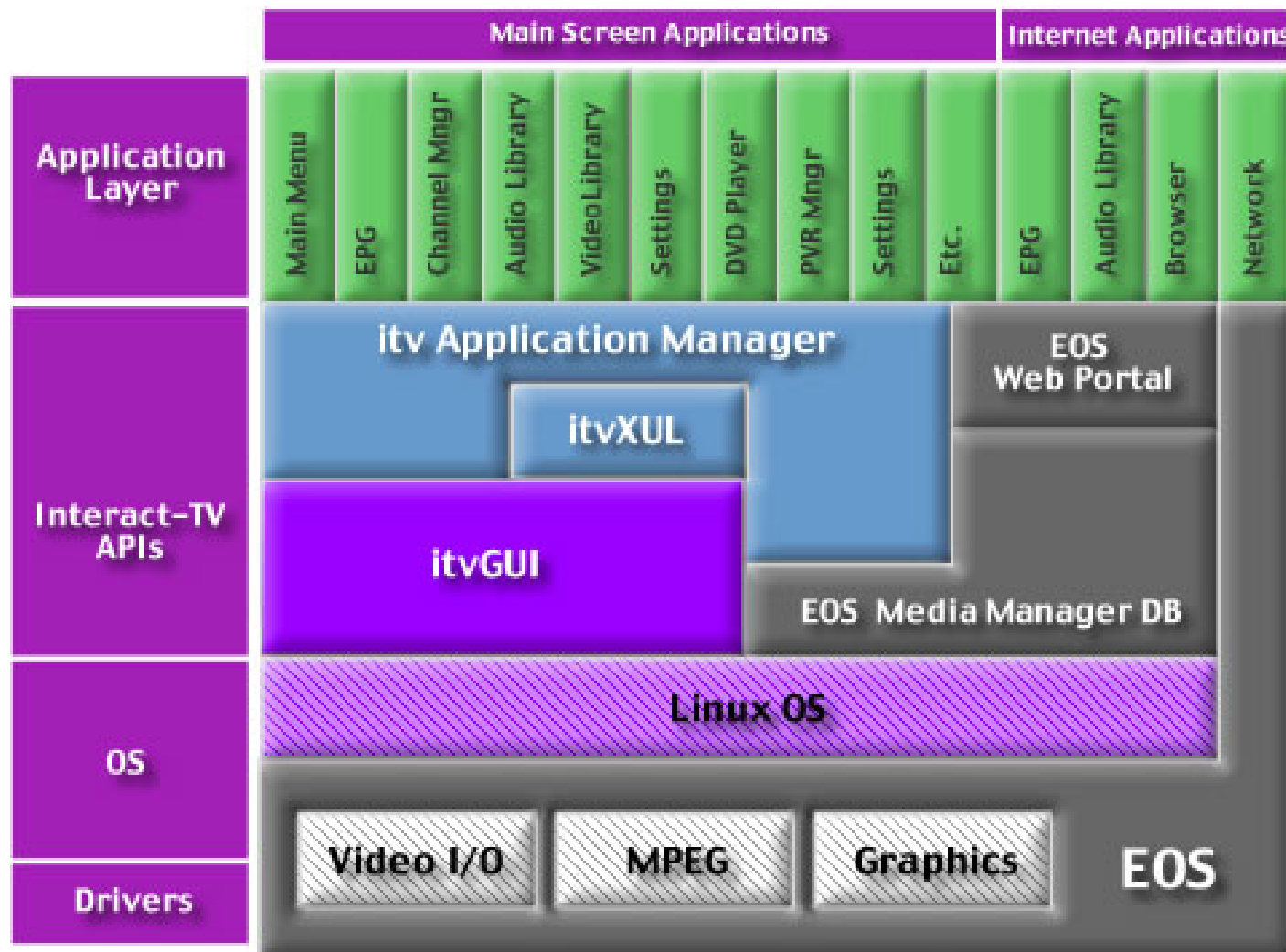
- **Linux-based “Entertainment Operating System”**
- **Full-featured Home Entertainment/Media Center Development Platform**
- **Designed for OEMs, System Builders, VARs**
- **Enables development of Home Entertainment Servers and other Digital Entertainment Products**





- Complete product solution providing immediate value to customers
- Eliminates extensive & expensive application development
- Licensing at very attractive price points and to a single vendor
- No separate operating system licenses, no other middleware licenses
- Can port any drivers necessary to support your hardware platform
- Customization development can done by you
- APIs openly available to your developers or third-party developers
- Third-party application development is actively supported

# EOS Main Components



# EOS vs Media Center Edition/Viiv



## Linux-based EOS

- Small Form Factors - OK
- CPU - 1GHz
- RAM - 256/512MB
- Fanless/Quiet Designs – Yes
- Designed for 24/7/356/Always On - Yes
- Virus Attacks Issues – No
- “Memory Handling” Issues – No
- Secure – Yes
- Reliable – Yes
- Efficient – Yes
- Low Cost – Yes

## Windows MCE/Viiv

- Small Form Factors – Not OK w/Intel BTX
- CPU – 3GHzs and Higher
- RAM – 1GB and Higher
- Fanless/Quiet Designs – No
- Designed for 24/7/356/Always On - No
- Virus Attacks Issues – Yes
- “Memory Handling” Issues – Yes
- Secure – Not Known/Reputed for
- Reliable – Not Known/Reputed for
- Efficient – Not Known/Reputed for
- Low Cost – Not today...



**Typical Size Comparison**  
**Interact-TV's MyTelly vs Windows/Viiv Media Center**  
**MSRP: MyTelly \$795\* – MS-MCE-Viiv \$1,495\***  
**\*For Similar Capacity/Performance**





## EOS Benefits

- **Consumer-Friendly** – Linux is proven to be extraordinarily stable and an optimum choice for consumer-friendly devices. Designed to be easy to use and install.
- **Superior Media Management** - EOS manages all forms of digital media for enjoyable and easy playback.
- **MediaSafe** - User-friendly "MediaSafe" RAID implementation that will safeguard keepsake photos, videos and music, much of which is currently not protected.
- **Enjoy Your Media Remotely** - Access your media collection and your Media Server remotely from anywhere in the world!
- **Form Factor & Design** – Mini-ITX, high performance, low power solutions from VIA, such as M10000 and EN series MB.
- **Low Cost to Build – Low MSRP – Higher Profit** - Runs more efficiently on a low-cost highly affordable platform. This can open mass market opportunities in global markets – private labeling.



# Thank you!

Ken Fuhrman

[kenf@interact-tv.com](mailto:kenf@interact-tv.com)



Interact-TV, Inc.  
9076 Marshall Ct.  
Westminster, CO 80031  
[www.interact-tv.com](http://www.interact-tv.com)

Phone: 303-657-3133  
Fax: 303-657-3595